IN THE CLAIMS:

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This listing of claims will replace all prior versions and listings of claims in the application

Listing of Claims:

Claims 1-10 (Cancelled)

- 11. (New) A structure comprising tungsten as a main component and tungsten carbide, wherein the content of carbon is at least 0.1% by mass and the total content of cobalt, nickel, and iron is 3% or less by mass, respectively based on the structure.
- 12. (New) The structure according to Claim 11, wherein the structure has a Vickers hardness of at least 800.
- 13. (New) The structure according to Claim 11, wherein the structure has a density of at least 10 g/cm³.
- 14. (New) The structure according to Claim 11, wherein the structure has a surface roughness of 1 μm or less.
- 15. (New) The structure according to Claim 11, wherein the structure has an average grain size of 50 nm or less.
- 16. (New) The structure according to Claim 11, wherein the number of pools having a size of at least 5 µm and consisting of at least one element selected from the group consisting of cobalt, nickel, and iron is not more than one per 100 mm² of the surface of the structure.
- 17. (New) The structure according to Claim 11, wherein the structure has a shape on the order of micrometers.

19 claims total

- 18. (New) The structure according to Claim 13, wherein the structure has a shape on the order of micrometers.
- 19. (New) The structure according to Claim 14, wherein the structure has a shape on the order of micrometers.
- 20. (New) The structure according to Claim 15, wherein the structure has a shape on the order of micrometers.
- 21. (New) The structure according to Claim 16, wherein the structure has a shape on the order of micrometers.
- 22. (New) A method of manufacturing the structure according to Claim 11, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.
- 23. (New) A method of manufacturing the structure according to Claim 13, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.
- 24. (New) A method of manufacturing the structure according to Claim 14, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the

group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.

- 25. (New) A method of manufacturing the structure according to Claim 15, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.
- 26. (New) A method of manufacturing the structure according to Claim 16, comprising the step of forming the structure by electro-deposition of a molten salt containing at least two elements selected from the group consisting of lithium, sodium, potassium, rubidium, cesium, beryllium, magnesium, calcium, strontium, and barium; at least one element selected from the group consisting of fluorine, chlorine, bromine, and iodine; tungsten; zinc; and an organic compound.
- 27. (New) The method of manufacturing a structure according to Claim 22, wherein the structure is formed by electro-deposition at the temperature of the molten salt of 300°C or less.
- 28. (New) The method of manufacturing a structure according to Claim 22, wherein the organic compound is polyethylene glycol.
- 29. (New) The method of manufacturing a structure according to Claim 27, wherein the organic compound is polyethylene glycol.